Origination Form

Proposed Revisions to a Standard Plans Index

Originator:	Turley, Joshua	Index Number:	521-427
Date:	4/29/2025	Sheet Number(s):	Sheet 4
E-mail:	Joshua.Turley@dot.state.fl.us	Index Title:	TRAFFIC RAILING - (36" SINGLE- SLOPE)

Summary of the changes:

Sheet 4: Added a grout plug option as an alternate detail.

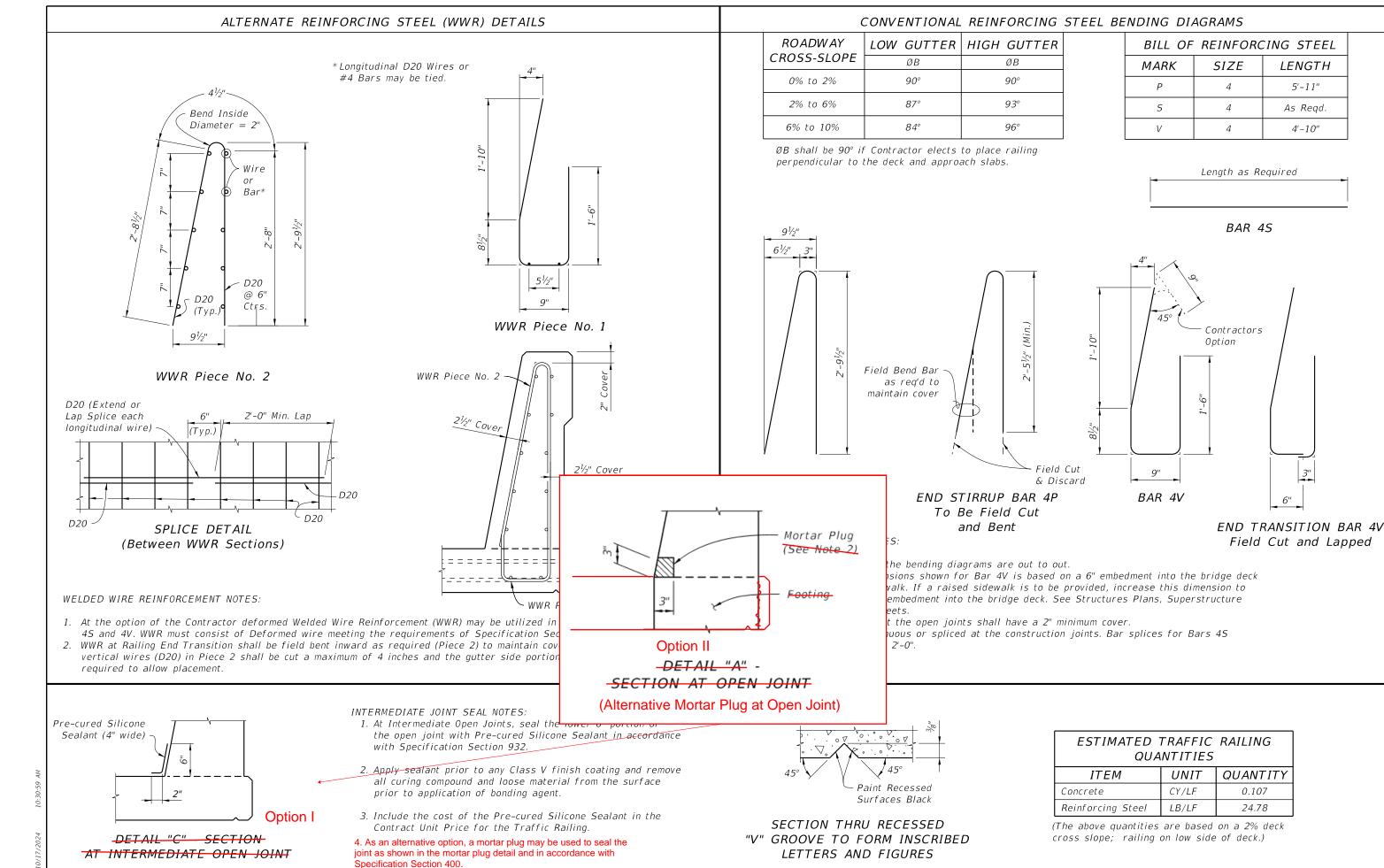
Commentary/Background:

Contractors wanted a more constructible and economical option that would still perform the intended function of preventing water to flow out between the open joints.

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

Implementation

["FY-Standard Plans (Next Release)"]



REVISION

DESCRIPTION:

FDOT

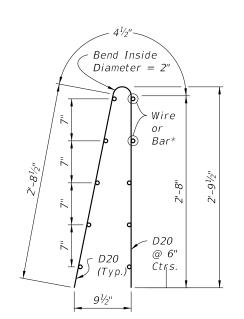
FY 2025-26 2026-27 STANDARD PLANS

INDEX *521-427*

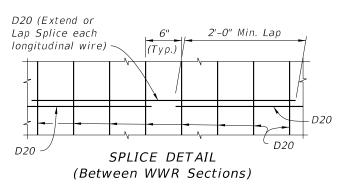
SHEET

ALTERNATE REINFORCING STEEL (WWR) DETAILS *Longitudinal D20 Wires or

#4 Bars may be tied.



WWR Piece No. 2



WELDED WIRE REINFORCEMENT NOTES:

- 1. At the option of the Contractor deformed Welded Wire Reinforcement (WWR) may be utilized in lieu of all Bars 4P, 4S and 4V. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.
- 2. WWR at Railing End Transition shall be field bent inward as required (Piece 2) to maintain cover. The bottom of the vertical wires (D20) in Piece 2 shall be cut a maximum of 4 inches and the gutter side portion bent inward as required to allow placement

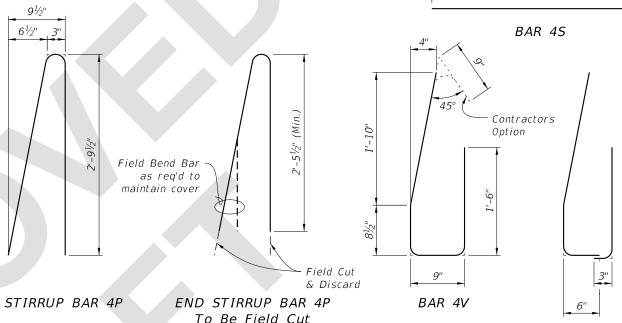
CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

ROADWAY	LOW GUTTER	HIGH GUTTER
CROSS-SLOPE	ØB	ØB
0% to 2%	90°	90°
2% to 6%	87°	93°
6% to 10%	84°	96°

BILL OF REINFORCING STEEL				
MARK	SIZE	LENGTH		
Р	4	5'-11"		
5	4	As Reqd.		
V	4	4'-10"		

ØB shall be 90° if Contractor elects to place railing perpendicular to the deck and approach slabs.

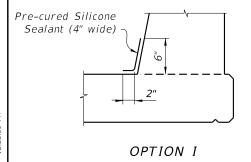
Length as Required

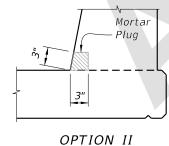


REINFORCING STEEL NOTES:

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. The 8½" vertical dimensions shown for Bar 4V is based on a 6" embedment into the bridge deck without a raised sidewalk. If a raised sidewalk is to be provided, increase this dimension to achieve a 6" minimum embedment into the bridge deck. See Structures Plans, Superstructure and Approach Slab Sheets.
- 3. All reinforcing steel at the open joints shall have a 2" minimum cover.
- 4. Bars 4S may be continuous or spliced at the construction joints. Bar splices for Bars 4S shall be a minimum of 2'-0".

and Bent





(Alternative Mortar Plug at Open Joint)

DETAIL "C"

INTERMEDIATE JOINT SEAL NOTES:

WWR Piece No. 1

2½" Cover

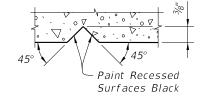
5½"

WWR Piece No. 1

WWR Piece No. 2

21/2" Cover

- 1. At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.
- 2. Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.
- 3. Include the cost of the Pre-cured Silicone Sealant in the Contract Unit Price for the Traffic Railing.
- 4. As an alternative option, a mortar plug may be used to seal the joint as shown in the mortar plug detail and in accordance with Specification Section 400.



SECTION THRU RECESSED "V" GROOVE TO FORM INSCRIBED LETTERS AND FIGURES

ESTIMATED TRAFFIC RAILING QUANTITIES				
ITEM	UNIT	QUANTITY		
Concrete	CY/LF	0.107		
Reinforcing Steel	LB/LF	24.78		

(The above quantities are based on a 2% deck cross slope; railing on low side of deck.)

DESCRIPTION:

LAST REVISION 11/01/25



FY 2026-27 STANDARD PLANS

TRAFFIC RAILING - (36" SINGLE-SLOPE)

INDEX SHEET *521-427* 4 of 5

END TRANSITION BAR 4V

Field Cut and Lapped